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A Review On Different MRAS Techniques

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Abstract

A review on different MRAS techniques has been presented by the authors. They concluded that all the existing methods have unstable regions at low speed under regenerative operation. When estimated stator resistance is more than real stator resistance is more sensitive to deviation between estimated and actual value of stator resistance R_s . Furthermore a detailed comparison between techniques and the advantages and disadvantages of these methods were discussed. It is concluded that the performance of the back MRAS at low speed is better than the RF-MRAS, furthermore design of Back EMF MRAS estimator is more difficult due to nonlinear effect of the adaption gain constant.